

THIS ANNOTATED FILE LISTING INCLUDES A CODE NUMBER FOR EACH FIELD.
THIS CODE NUMBER IS LOCATED BELOW THE FIRST CHARACTER IN THE FIELD. THESE
NUMBERS ARE DECODED AT THE END OF THIS DOCUMENTATION.

[illegible][illegible]

	422225.9460	-1225245.9050	1131639	3146	100	0721993
35		36	37	38	39	40

	1315.6		0721993
41	42	43	

44		45		46		47

	0	1304.8		0721993
48	49	50	51	

	500	1306.0		0721993
	1790	1311.0		0721993
	2380	1313.0		0721993
	2790	1314.0		0721993
	3146	1316.1		0721993
	3908	1319.0		0721993

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	27	P	0721993
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N	0721993
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	422213.6660	-1225207.4160	2931705	3146	100	0721993
	1316.1		0721993			

	0	1316.1		0721993	
	350	1314.0		0721993	
	766	1313.0		0721993	
	1356	1311.0		0721993	
	2646	1306.0		0721993	
	3146	1304.8		0721993	
	3843	1298.0		0721993	

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	14	P	0721993
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N	0721993
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	422251.0140	-1225234.9390	1584558	6700	150	0721993
	1310.1		0721993			

	0	1294.1		0721993	
	1081	1299.7		0721993	
	3000	1310.0		0721993	
	3730	1313.0		0721993	
	6700	1330.6		0721993	

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	32	P	0721993
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N	0721993
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	422149.3290	-1225202.6210	3384621	6700	150	0721993
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1330.6	0721993
0 1330.6	0721993
2970 1313.0	0721993
3700 1310.0	0721993
5619 1299.7	0721993
6700 1294.1	0721993

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NAVIGATIONAL AID DATA

0	1	2	3	4	5	6	7	8	9	10	11
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890											

ASR (MFR)	422306.6000	-1225146.7000	1310.0			0721993
60	61	62	63	64	65	66 67

DME (14)	422140.0470	-1225201.8010	1334.0			0721993
GS (14)	422242.4910	-1225224.7530	1297.1			0721993
GS (14) PP	422241.0590	-1225229.7230		400R	1081	0721993
LMM (14)	422321.0000	-1225250.6000			3250	0721993
LMM (14) CLPT	422322.5454	-1225249.3030		4L	3250	0721993
LOC (14)	422140.1380	-1225157.8070	1318.9		998	0721993
LOM (14)	422703.2000	-1225448.2000			27420	0721993
LOM (14) CLPT	422702.5454	-1225444.3030		221L	27385	0721993
VORTAC (OED)	422846.5000	-1225446.7000	2080.0			0721993

#

ALS (14)						0721993
APBN	422100.1234	-1225100.0023				0721993
REIL (14)						0721993

#

MTI # 1	350337.2031	-895915.6612				0721993
MTI # 2	350343.7826	-895834.7896				0721993
CPME	350300.2394	-895851.9403				0721993
RBPM	345414.0699	-895513.5368				0721993

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OBSTRUCTION DATA (APPROACH, PRIMARY, AND MISSED APPROACH SURFACES)

0	1	2	3	4	5	6	7	8	9	10	11	12
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345												

9	AV
70	71

ROAD(N)	422227.04	-1225254.70	1A	1313			8	-3	-18	650		159R	-14	0721993
72	73	74	75	76	77	78	79	80	81	82	83	84	85	86

TREE	422223.12	-1225305.13	1A	1347			42	31	16	1653		190L	-30	0721993
POLE	422231.66	-1225306.69	1A	1314			9	-2	-17	1662		85R	-64	0721993
#														
27 AV														
FENCE	422211.51	-1225154.02	1A	1324			8	8	-7	1010		197R	-33	0721993
ANT ON BLDG	422207.85	-1225142.68	1A	1352			36	36	21	1938		193R	-51	0721993
#														
14 PIR														
OL ON LTD WSK	422151.22	-1225159.92	1A	1335			41	25	4	-6594		258L	6	0721993
ROAD(N)	422154.48	-1225212.67	1A	1334			40	24	3	-5940		* 515R	8	0721993
OL ON LTD WSK	422215.67	-1225224.01	1A	1340			46	30	9	-3632		* 531R	28	0721993
ROD ON OL TMOM	422239.81	-1225222.04	1A	1317			23	7	-14	-1408		492L	15	0721993
OL ON LTD WSK	422241.56	-1225226.38	1A	1307			13	-3	-24	-1125		252L	7	0721993
ROD ON OL GS	422242.49	-1225224.75	1A	1349			55	39	18	-1081		400L	49	0721993
BLDG	422256.64	-1225244.69	1A	1299			5	-11	-32	796		476R	-7	0721993
TREE	422331.15	-1225303.87	1A	1360			66	50	29	4573		552R	-22	0721993
ANT ON TWR	422337.01	-1225303.87	1A	1373			79	63	42	5126		337R	-20	0721993
TREE	422759.80	-1225426.71	1A	2118			824	808	787	32172		3514L	75	0721993
TREE	422819.15	-1225450.09	1A	2161			867	851	830	34633		2590L	56	0721993
#														
32 SUPLC														
ROD ON OL GS	422242.49	-1225224.75	1A	1349			18	18	18	-5618		400R	49	0721993
OL ON LTD WSK	422241.56	-1225226.38	1A	1307			-24	-24	-24	-5574		252R	7	0721993
ROD ON OL TMOM	422239.81	-1225222.04	1A	1317			-14	-14	-14	-5291		492R	15	0721993
OL ON LTD WSK	422215.67	-1225224.01	1A	1340			9	9	9	-3067		* 531L	28	0721993
ROAD(N)	422154.48	-1225212.67	1A	1334			3	3	3	-759		* 515L	8	0721993
OL ON LTD WSK	422151.22	-1225159.92	1A	1335			4	4	4	-105		258R	6	0721993
OL ON DME	422140.05	-1225201.80	1A	1339			8	8	8	898		283L	-12	0721993
OL ON LOC	422140.14	-1225157.81	1A	1334			3	3	3	998		0R	-20	0721993
TREE	422132.26	-1225151.42	1A	1357			26	26	26	1915		158R	-24	0721993
POLE	422130.00	-1225146.32	1A	1372			41	41	41	2267		432R	-19	0721993
VESSEL (A32)														0721993
#														
32 ANAPC														
ROD ON OL GS	422242.49	-1225224.75	1A	1349			18	18	18	-5618		400R	49	0721993
OL ON LTD WSK	422241.56	-1225226.38	1A	1307			-24	-24	-24	-5574		252R	7	0721993
ROD ON OL TMOM	422239.81	-1225222.04	1A	1317			-14	-14	-14	-5291		492R	15	0721993
OL ON LTD WSK	422151.22	-1225159.92	1A	1335			4	4	4	-105		258R	6	0721993
TREE	422132.26	-1225151.42	1A	1357			26	26	26	1915		158R	-8	0721993
POLE	422130.00	-1225146.32	1A	1372			41	41	41	2267		432R	0	0721993
VESSEL														0721993
#														

OBSTRUCTION DATA (FAR-77 HORIZONTAL, CONICAL, AND TRANSITION SURFACES)

0 1 2 3 4 5 6 7 8 9 10 11
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890

ARP | HCT |
70 71

OL ON LTD WSK	422215.67	-1225224.01	1A	1340			9	18724	488	10	0721993
72	73	74	75	76	77	78	87	88	89	90	91
ANT AND APBN ON ATCT	422210.10	-1225224.72	1A	1386			55	17700	1040	30	7021993
OL ON AMOM	422230.12	-1225236.78	1A	1323			-8	29356	1545	-37	0721993
LT POLE	422204.31	-1225221.10	1A	1359			28	16210	1594	5	0721993
HANGAR	422221.76	-1225242.75	1A	1327			-4	25849	1620	-3	0721993
LT POLE	422232.50	-1225238.92	1A	1356			25	29618	1827	-12	0721993
TREE	422224.22	-1225252.42	1A	1321			-10	26256	2374	-23	0721993
WSK ON HANGAR	422231.65	-1225251.14	1A	1333			2	28021	2529	-21	0721993
ROAD(N)	422154.48	-1225212.67	1A	1334			3	14839	2669	6	0721993
POLE	422252.60	-1225247.03	1A	1331			0	31219	3819	-4	0721993
ANT ON OL RTR TWR	422138.36	-1225211.30	1A	1381			50	15237	4287	-29	0721993
TREE	422257.49	-1225249.39	1A	1327			-4	31336	4337	-5	0721993
POLE	422305.40	-1225232.03	1A	1326			-5	33244	4661	1	0721993
ANT ON OL ASR	422306.62	-1225146.74	1A	1409			78	1130	5380	-72	0721993
TREE	422313.83	-1225233.34	1A	1355			24	33316	5518	0	0721993
TREE	422254.66	-1225114.54	1B	1500			169	3744	6113	19	0721993
TREE	422314.01	-1225306.63	1A	1374			43	31047	6435	-41	0721993
TREE	422239.61	-1225047.36	1B	1684			353	5700	7323	203	0721993
MOBILE CRANE	422240.88	-1225046.98	1M	1690			359	5606	7386	209	0721993
TREE	422255.41	-1225037.35	1B	1567			236	4802	8584	86	0721993
TREE	422134.83	-1225003.35	1A	1490			159	9632	11323	9	0721993
TREE	422107.15	-1225014.51	1B	1574			243	11028	12045	93	0721993
TREE	422128.14	-1224940.07	1C	1532			201	9609	13195	11	0721993
TREE	422011.35	-1225051.89	2C	1592			261	13526	14657	59	0721993
TREE	422110.52	-1224921.10	2C	1705			374	10010	15250	93	0721993
TREE	422149.06	-1224901.02	2C	1827			496	8428	15359	168	0721993
TREE	422102.00	-1224910.90	1A	1835			504	10136	16333	173	0721993
TREE	421959.08	-1225029.68	2C	1658			327	13215	16550	29	0721993
ANT	422057.66	-1224909.46	1A	1835			504	10245	16643	161	0721993
TRMSN TWR	422045.78	-1224919.31	1A	1691			360	10737	16666	26	0721993
VESSEL (HCT)											0721993

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ADDITIONAL INFORMATION

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1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890

ADDITIONAL INFORMATION
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| INFORMATION IN THIS DOCUMENTATION SHOULD NOT BE USED FOR OPERATIONAL PURPOSES. |
EOF

FIELD DESCRIPTIONS

1. AIRPORT IDENTIFIER/A6/2-7

THE SOURCE FOR THIS IDENTIFIER IS FAA ORDER 7350.**, AS AMENDED.

2. AIRPORT SITE NUMBER/A10/9-18

3. FAA REGION/A4/20-23

4. UNIVERSAL DATA DELIVERY FORMAT VERSION/F4.2/25-28

MINOR MODIFICATIONS ARE INDICATED BY CHANGES TO THE RIGHT OF THE DECIMAL. MAJOR MODIFICATIONS ARE INDICATED BY CHANGES TO THE LEFT OF THE DECIMAL.

5. AIRPORT NAME/A70/2-71

AIRPORT NAME CURRENT AT DATE OF SURVEY

6. VERIFICATION DATE/A7/73-79

VERIFICATION DATE IS THE MOST RECENT DATE THAT DATA IN THIS RECORD WAS VERIFIED AS CORRECT. IT IS NOT NECESSARILY THE ORIGINAL SURVEY DATE.

FORMAT: DDDYYYY WHERE:

DDD = DAY OF YEAR

YYYY = YEAR

THE FIRST THREE NUMBERS IN THIS FIELD INDICATE THE DAY IN THE YEAR. THE LAST FOUR NUMBERS INDICATE THE YEAR. FOR EXAMPLE, 1061996 IS APRIL 15, 1996.

7. CITY/A40/2-41

ASSOCIATED CITY

8. STATE/A30/43-72

STATE (OR POLITICAL SOVEREIGNTY IF NOT A STATE)

9. HORIZONTAL AND ELLIPSOID ELEVATION DATUM/A10/2-11

10. HORIZONTAL DATUM TIE ACCURACY/A10/13-22

ACCURACIES ARE RELATIVE TO THE NATIONAL SPATIAL REFERENCE SYSTEM (NSRS) AND REPRESENT THE MINIMUM ACCURACY FOR THE DATUM TIE. BECAUSE OF VARIABLES IN THE SURVEY PROCESS, INDIVIDUAL TIES MAY BE SIGNIFICANTLY MORE ACCURATE THAN INDICATED.

ACCURACIES EXPRESSED AS A RATIO (1:10,000 ETC.) ARE RELATIVE TO THE NSRS AS A PROPORTION OF THE DISTANCE FROM THE NSRS TIE STATION. FOR EXAMPLE, A 1:10,000 TIE IS ACCURATE TO ONE FOOT FOR EACH 10,000 FEET FROM THE NSRS TIE STATION.

ALL ACCURACIES ARE AT THE 95 PERCENT CONFIDENCE LEVEL.

11. ELLIPSOID ELEVATION DATUM TIE ACCURACY/A10/24-33

ACCURACIES ARE RELATIVE TO THE NATIONAL SPATIAL REFERENCE SYSTEM (NSRS) AND REPRESENT THE MINIMUM ACCURACY FOR THE DATUM TIE. BECAUSE OF VARIABLES IN THE SURVEY PROCESS, INDIVIDUAL TIES MAY BE SIGNIFICANTLY MORE ACCURATE THAN INDICATED.

ALL ACCURACIES ARE AT THE 95 PERCENT CONFIDENCE LEVEL.

12. ORTHOMETRIC ELEVATION DATUM/A10/35-44

13. ORTHOMETRIC ELEVATION DATUM TIE ACCURACY/A15/46-60

ACCURACIES ARE RELATIVE TO THE NATIONAL SPATIAL REFERENCE SYSTEM (NSRS) AND REPRESENT THE MINIMUM ACCURACY FOR THE DATUM TIE. BECAUSE OF VARIABLES IN THE SURVEY PROCESS, INDIVIDUAL TIES MAY BE SIGNIFICANTLY MORE ACCURATE THAN INDICATED.

ALL ACCURACIES ARE AT THE 95 PERCENT CONFIDENCE LEVEL.

14. MAGNETIC DECLINATION/F5.1/2-6

EAST DECLINATION IS INDICATED BY "-"

15. VERIFICATION DATE/A7/8-14

SEE FIELD 6

16. AIRPORT ORTHOMETRIC (MSL) ELEVATION/F7.1/2-8

17. AIRPORT ELLIPSOIDAL ELEVATION/F7.1/10-16

18. AIRPORT ELEVATION LOCATION/A8/18-25

LOCATION OF AIRPORT ELEVATION IN FEET FROM THE INDICATED RUNWAY END.
(FOR EXAMPLE, 30 + 1500 = 1500 FEET FROM THE APPROACH END OF RUNWAY 30).

19. VERIFICATION DATE/A7/27-33

SEE FIELD 6

20. CONTROL TOWER FLOOR ORTHOMETRIC (MSL) ELEVATION/F7.1/2-8

21. CONTROL TOWER FLOOR ELLIPSOIDAL ELEVATION/F7.1/10-16

22. VERIFICATION DATE/A7/18-24

SEE FIELD 6

23. AIRPORT REFERENCE POINT (ARP) LATITUDE/F9.1/2-10
A NEGATIVE (-) INDICATES SOUTH LATITUDE

24. AIRPORT REFERENCE POINT (ARP) LONGITUDE/F9.1/12-21
A NEGATIVE (-) INDICATES WEST LONGITUDE

25-29. INTENTIONALLY OMITTED

30. RUNWAY/A5/2-6

31. RUNWAY SURFACE TYPE/A1/8

P ... SPECIALLY PREPARED HARD SURFACE - PAVED
S ... SPECIALLY PREPARED HARD SURFACE - UNPAVED
U ... NOT A SPECIALLY PREPARED HARD SURFACE

32. VERIFICATION DATE/A7/10-16

SEE FIELD 6

33. BLAST PAD/A1/2

Y = BLAST PAD EXISTS
N = NO BLAST PAD EXISTS
X = NOT VERIFIED

34. VERIFICATION DATE/A7/4-10

SEE FIELD 6

35. RUNWAY CENTERLINE END LATITUDE /F12.4/2-13

36. RUNWAY CENTERLINE END LONGITUDE/F13.4/15-27

37. RUNWAY GEODETIC AZIMUTH/I7/29-35

FORMAT: DDDMMSS WHERE

DDD = DEGREES

MM = MINUTES

SS = SECONDS

AZIMUTH FROM SOUTH IF HORIZONTAL DATUM IS NAD 27

38. RUNWAY LENGTH/I5/37-41

39. RUNWAY WIDTH/I3/43-45

40. VERIFICATION DATE/A7/47-53

SEE FIELD 6

41. TOUCHDOWN ZONE ORTHOMETRIC (MSL) ELEVATION/F7.1/2-8

42. TOUCHDOWN ZONE ELLIPSOIDAL ELEVATION/F7.1/10-16

43. VERIFICATION DATE/A7/18-24

SEE FIELD 6

44. DISPLACED THRESHOLD LATITUDE/F12.4/2-13

45. DISPLACED THRESHOLD LONGITUDE/F13.4/15-27

46. DISPLACED THRESHOLD LENGTH/I7/29-35

47. VERIFICATION DATE/A7/37-43

SEE FIELD 6

48. RUNWAY PROFILE POINT DISTANCE FROM RUNWAY APPROACH END/I5/2-6

PROFILE POINT DISTANCE FROM RUNWAY APPROACH END IDENTIFIED IN FIELD 30.

RUNWAY APPROACH END IS INDICATED BY 0 FEET.

NOTE: IF A PROFILE POINT DISTANCE IS GREATER THAN THE RUNWAY LENGTH, THE POINT
IS ON A STOPWAY. STOPWAY LENGTH IS EQUAL TO THE GREATEST PROFILE DISTANCE
SHOWN MINUS THE RUNWAY LENGTH.

49. RUNWAY PROFILE POINT ORTHOMETRIC (MSL) ELEVATION/F7.1/8-14

50. RUNWAY PROFILE POINT ELLIPSOIDAL ELEVATION/F7.1/16-22

51. VERIFICATION DATE/A7/24-30

SEE FIELD 6

52-59. INTENTIONALLY OMITTED

60. NAVAID TYPE/A25/2-26

ELECTRONIC NAVAIDS, VISUAL NAVAIDS, AND RADAR COMPONENTS ARE LISTED SEPARATELY.

ELECTRONIC NAVAIDS ARE LISTED IN ALPHABETICAL ORDER BY TYPE. ILS AND MLS COMPONENTS INCLUDE THE RUNWAY SERVED IN PARENTHESIS. NON-ILS/MLS COMPONENTS INCLUDE THE NAVAID IDENTIFIER IN PARENTHESIS.

"PP" (PERPENDICULAR POINT) REFERS TO THE POINT ON THE RUNWAY CENTERLINE OR CENTERLINE EXTENDED NEAREST TO THE INDICATED NAVAID.

"CLPT" (CENTERLINE POINT) REFERS TO THE POINT ON THE CENTERLINE EXTENDED NEAREST TO THE INDICATED ILS MARKER BEACON ANTENNA.

VISUAL NAVAIDS ARE LISTED IN ALPHABETICAL ORDER BY TYPE. VISUAL NAVAIDS INCLUDE THE RUNWAY SERVED IN PARENTHESIS. THE AIRPORT BEACON (APBN) IS THE ONLY VISUAL NAVAID CARRYING A POSITION.

FIELD 60 ALSO INCLUDES NAVAID STATUS IF KNOWN. THIS STATUS IS ABBREVIATED AS FOLLOWS:

OTS - OUT OF SERVICE, NCM - NOT COMMISSIONED, UNC - UNDER CONSTRUCTION.

IF THE UDDF FILE IS A "NAV##" FILE, FIELD 60 WILL ALSO INDICATE THE STATE WHERE THE NAVAID IS LOCATED.

61. NAVAID LATITUDE/F12.4/28-39

62. NAVAID LONGITUDE/F13.4/41-53

63. NAVAID ORTHOMETRIC (MSL) ELEVATION/F7.1/55-61

BASE ELEVATION OF THE NAVAID

NOTE: FOR ILS DISTANCE MEASURING EQUIPMENT (DME) THE ELEVATION PROVIDED IS THE CENTER OF THE ANTENNA COVER; FOR MICROWAVE LANDING SYSTEM AZIMUTH GUIDANCE (MLS AZ), MICROWAVE LANDING SYSTEM ELEVATION GUIDANCE (MLSEL) AND END FIRE TYPE GLIDE SLOPE ANTENNAS THE ELEVATION PROVIDED IS THE PHASE CENTER OF THE REFERENCE POINT.

64. NAVAID ELLIPSOIDAL ELEVATION/F7.1/63-69

65. NAVAID OFFSET DISTANCE/I5/71-75

DISTANCE BETWEEN A NAVAID AND ITS ASSOCIATED PP OR CLPT, DEPENDING ON THE NAVAID.

OFFSET DISTANCES BETWEEN THE NAVAID AND ASSOCIATED PP ARE LISTED ONLY FOR:

- ILS GLIDE SLOPE AND LOCALIZER ANTENNAS
- MLS ELEVATION AND AZIMUTH GUIDANCE ANTENNAS
- LOCALIZER TYPE DIRECTIONAL AID ANTENNAS
- SIMPLIFIED DIRECTIONAL FACILITY ANTENNAS

OFFSET DISTANCES FOR THE NAVAIDS LISTED ABOVE ARE PROVIDED ONLY IF THE NAVAID IS MORE THAN 10 FEET OFF THE RUNWAY CENTERLINE OR CENTERLINE EXTENDED.

OFFSET DISTANCES BETWEEN ILS MARKER BEACON ANTENNAS AND ASSOCIATED CLPT ARE ALWAYS PROVIDED.

OFFSET DIRECTION L (LEFT) OR R (RIGHT) IS RELATIVE TO AN OBSERVER FACING FORWARD IN A LANDING AIRCRAFT.

66. NAVAID ALONG CENTERLINE DISTANCES/I6/77-82

DISTANCE BETWEEN THE NAVAID PP AND THE RUNWAY APPROACH OR STOP END, DEPENDING ON NAVAID.

DISTANCE BETWEEN NAVAID PP AND RUNWAY APPROACH END IS PROVIDED FOR THE FOLLOWING NAVAIDS. A NEGATIVE DISTANCE FOR THESE NAVAIDS INDICATES THAT THE PP IS ON THE APPROACH SIDE OF THE RUNWAY APPROACH END.

- ILS GLIDE SLOPE ANTENNAS
- MLS ELEVATION GUIDANCE ANTENNAS

DISTANCE BETWEEN NAVAID PP AND RUNWAY STOP END IS PROVIDED FOR THE FOLLOWING NAVAIDS. A NEGATIVE DISTANCE FOR THESE NAVAIDS INDICATES THAT THE PP IS ON THE RUNWAY SIDE OF THE RUNWAY STOP END.

- LOCALIZER ANTENNAS
- LOCALIZER TYPE DIRECTIONAL AID ANTENNAS
- MLS AZIMUTH GUIDANCE ANTENNAS
- SIMPLIFIED DIRECTIONAL FACILITY ANTENNAS

DISTANCE BETWEEN NAVAID AND RUNWAY APPROACH END IS PROVIDED FOR THE FOLLOWING NAVAIDS. NOTE: FOR THESE NAVAIDS, THE PROVIDED DISTANCE IS FROM THE NAVAID, NOT THE PP, TO THE RUNWAY END. (MOVE BELOW LISTING OF NAVAIDS)

- BACK COURSE MARKER ANTENNAS
- ILS MARKER BEACON ANTENNAS

NOTE: FOR ILS MARKER BEACON ANTENNAS THE DISTANCE BETWEEN THE NAVAID'S CLPT AND RUNWAY APPROACH END IS ALSO PROVIDED.

67. VERIFICATION DATE/A7/84-90

SEE FIELD 6

68-69. INTENTIONALLY OMITTED

70. OBSTRUCTION REFERENCE/A4/2-5

OBSTRUCTION INFORMATION IS ORGANIZED INTO OBSTRUCTION BLOCKS. EACH BLOCK IS IDENTIFIED WITH A REFERENCE IDENTIFIER AND THE OBSTRUCTION IDENTIFICATION SURFACES (OIS) FOR WHICH THE SURVEY WAS ACCOMPLISHED (FIELD 71). FOR EXAMPLE, "4 AV" INDICATES THAT THE DATA IN THIS BLOCK PERTAINS TO RUNWAY 4 AND THAT THE OBSTRUCTION SURVEY WAS ACCOMPLISHED TO FAR77 VISUAL UTILITY RUNWAY OIS SPECIFICATIONS (SEE OIS CODING BELOW).

OBJECTS LOCATED WITHIN A FAR77 APPROACH OR PRIMARY AREA ARE LISTED IN AN OBSTRUCTION BLOCK WITH A RUNWAY NUMBER AS THE REFERENCE IDENTIFIER AND AN FAR77 OIS CODE.

OBJECTS LOCATED WITHIN AN AREA NAVIGATION APPROACH (ANA) CONVENTIONAL LANDING APPROACH, PRIMARY, TRANSITION, OR MISSED APPROACH AREA ARE LISTED IN AN OBSTRUCTION BLOCK WITH A RUNWAY NUMBER AS THE REFERENCE IDENTIFIER AND AN ANA OIS CODE.

IF BOTH A FAR77 AND ANA SURVEY WERE ACCOMPLISHED FOR THE SAME APPROACH, THE DATA WILL BE CARRIED IN TWO OBSTRUCTION BLOCKS, EACH SHOWING THE SAME RUNWAY NUMBER AS THE REFERENCE IDENTIFIER BUT DIFFERENT OIS CODING.

OBJECTS LOCATED WITHIN A FAR77 HORIZONTAL, CONICAL, OR TRANSITION AREA ARE LISTED IN AN OBSTRUCTION BLOCK WITH THE AIRPORT REFERENCE POINT (ARP) AS THE REFERENCE IDENTIFIER AND "HCT" AS THE OIS CODE.

OBJECTS LOCATED WITHIN ANY HELIPORT OIS ARE LISTED IN AN OBSTRUCTION BLOCK WITH THE HELIPORT REFERENCE POINT (HRP) AS THE REFERENCE IDENTIFIER AND AN ANA VERTICAL LANDING OIS CODE.

71. OBSTRUCTION IDENTIFICATION SURFACE/A7/7-13

OBSTRUCTION IDENTIFICATION SURFACES (OIS) CODING FOLLOWS:

- ANAC - AREA NAVIGATION APPROACH - NONPRECISION, CONVENTIONAL LANDING
(STANDARDS TO BE DEVELOPED)
- ANAV - AREA NAVIGATION APPROACH - NONPRECISION, VERTICAL LANDING
(STANDARDS TO BE DEVELOPED)
- ANAPC - AREA NAVIGATION APPROACH - PRECISION, CONVENTIONAL LANDING,
INCLUDES APPROACH, PRIMARY, TRANSITION, AND MISSED APPROACH SURFACES.
- ANAPV - AREA NAVIGATION APPROACH - PRECISION, VERTICAL LANDING

(STANDARDS TO BE DEVELOPED)

- AV - FAR77 VISUAL APPROACH - UTILITY RUNWAY,
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- ANP - FAR77 NONPRECISION APPROACH - UTILITY RUNWAY,
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- BV - FAR77 VISUAL APPROACH,
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- C - FAR77 NONPRECISION APPROACH - VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- D - FAR77 NONPRECISION APPROACH - VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- PIR - FAR77 PRECISION INSTRUMENT APPROACH,
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- SUPLC - C APPROACH UNDERLYING A BV APPROACH,
INCLUDES APPROACH AND PRIMARY SURFACES ONLY.
- HCT - FAR77 HORIZONTAL, CONICAL, AND TRANSITIONS
INCLUDES FAR77 HORIZONTAL, CONICAL, AND TRANSITION SURFACES ONLY.
- NUL - OIS NOT APPLICABLE

72. OBJECT NAME/A30/2-31

MOBILE OBJECTS:

AN ESTIMATED MAXIMUM ELEVATION (EME) POINT IS PROVIDED FOR FAR77 SURVEYS
AT:

- (1) THE POINT NEAREST TO THE RUNWAY APPROACH CENTERLINE END FOR
PRIMARY SURFACE PENETRATIONS,
- (2) THE MOST PENETRATING POINT FOR APPROACH SURFACE PENETRATIONS, AND
- (3) AS APPROPRIATE TO REPRESENT EACH MOBILE OBJECT AREA.

AN ESTIMATED MAXIMUM ELEVATION (EME) POINT IS PROVIDED FOR ANA SURVEYS AT:

- (1) THE POINT NEAREST TO THE RUNWAY CENTERLINE AT THE THRESHOLD FOR
PRIMARY SURFACE PENETRATIONS,
- (2) THE MOST PENETRATING POINT FOR APPROACH SURFACE PENETRATIONS, AND
- (3) AS APPROPRIATE TO REPRESENT EACH MOBILE OBJECT AREA.

VESSELS:

VESSEL POSITIONS AND ELEVATIONS ARE NOT PROVIDED BECAUSE OF UNCERTAINTIES IN DETERMINING MAXIMUM VESSEL HEIGHTS, TRAVEL LIMITS, AND FREQUENCY OF PASSAGE.

IF A POSSIBLE VESSEL OBSTRUCTION EXIST, THE NAME "VESSEL" WILL BE ENTERED IN THE OBSTRUCTION BLOCK IN THE OBJECT NAME FIELD. FOR FAR77 STUDIES, THE GENERAL AREA OF POSSIBLE OBSTRUCTION WILL ALSO BE ENTERED IN PARENTHESIS WITH THE OBJECT NAME.

FOR VESSELS POSSIBLY OBSTRUCTING AN FAR77 APPROACH OR PRIMARY OIS, AN "A" FOLLOWED BY THE APPROPRIATE RUNWAY NUMBER, IN PARENTHESIS, WILL ALSO BE ENTERED IN THE OBJECT NAME FIELD.

FOR VESSELS POSSIBLY OBSTRUCTING AN FAR77 HORIZONTAL, CONICAL, OR TRANSITION OIS, AN "HCT" WILL ALSO BE ENTERED IN THE OBJECT NAME FIELD.

FOR VESSELS POSSIBLY OBSTRUCTING AN ANA OIS, ONLY THE NAME "VESSEL" WILL BE ENTERED IN THE OBJECT NAME FIELD.

EXAMPLES:

FOR FAR77 OIS:

VESSEL (A32) - VESSELS MAY OBSTRUCT THE RUNWAY 32 APPROACH OR PRIMARY OIS.

VESSEL (HCT) - VESSELS MAY OBSTRUCT AN FAR77 HORIZONTAL, CONICAL, OR TRANSITION OIS.

FOR ANA OIS:

VESSEL - VESSELS MAY OBSTRUCT THE APPROACH, PRIMARY, TRANSITION, OR MISSED APPROACH OIS FOR THE RUNWAY INDICATED IN THE OBSTRUCTION REFERENCE (SEE FIELD 70).

IF POSSIBLE VESSEL OBSTRUCTION IS INDICATED, USER IS ADVISED TO CONTACT LOCAL AUTHORITIES FOR MAXIMUM VESSEL HEIGHT, FREQUENCY OF PASSAGE, TRAVEL LIMITS, AND OTHER PERTINENT INFORMATION.

73. LATITUDE/F10.2/33-42

74. LONGITUDE/F11.2/44-54

75. ACCURACY CODE/A2/56-57

HORIZONTAL (FT)	VERTICAL (FT)
1 = 20	A = 3
2 = 50	C = 20

3 = 100

D = 50

M = ESTIMATED MAXIMUM ELEVATION*

* AN ESTIMATED MAXIMUM ELEVATION IS PROVIDED WHEN THE ELEVATION OF AN OBJECT CANNOT BE DETERMINED PRECISELY,
AS WITH MOBILE OBJECTS.

76. OBJECT ORTHOMETRIC (MSL) ELEVATION/I5/59-63

77. OBJECT ELLIPSOIDAL ELEVATION/I5/65-69

78. ABOVE GROUND LEVEL (AGL) ELEVATION/I5/71-75

AGL VALUES ARE NORMALLY PROVIDED ONLY FOR REPRESENTATIVE MANMADE OBSTRUCTIONS
THAT ARE EQUAL TO OR GREATER THAN 200 FEET AGL.

79. HEIGHT ABOVE RUNWAY PHYSICAL END/I5/77-81

THIS DATA IS NOT PROVIDED FOR HCT SURVEYS.

80. HEIGHT ABOVE TOUCHDOWN ZONE ELEVATION/I5/83-87

THIS DATA IS NOT PROVIDED FOR HCT SURVEYS.

81. HEIGHT ABOVE AIRPORT/I5/89-93

82. DISTANCE MEASURED ALONG RUNWAY CENTERLINE EXTENDED FROM RUNWAY
PHYSICAL END TO A POINT ABEAM OBJECT/I6/95-100

A NEGATIVE DISTANCE INDICATES THAT THE OBJECT IS ON THE TOUCHDOWN
SIDE OF THE RUNWAY APPROACH END.

THIS DATA IS NOT PROVIDED FOR HCT SURVEYS.

83. DISTANCE MEASURED ALONG RUNWAY CENTERLINE EXTENDED FROM DISPLACED
THRESHOLD TO A POINT ABEAM OBJECT/I6/102-107

A NEGATIVE DISTANCE INDICATES THAT THE OBJECT IS ON THE TOUCHDOWN
SIDE OF THE DISPLACED THRESHOLD.

THIS DATA IS NOT PROVIDED FOR HCT SURVEYS.

84. DISTANCE FROM RUNWAY CENTERLINE/I6/109-114

SHORTEST DISTANCE FROM THE RUNWAY CENTERLINE OR CENTERLINE EXTENDED TO THE
OBJECT. "L" (LEFT) OR "R" (RIGHT) IS RELATIVE TO AN OBSERVER FACING FORWARD
IN A LANDING AIRCRAFT.

AN ASTERISK (*) INDICATES THAT THIS OBJECT IS OUTSIDE, BUT WITHIN 50 FEET,
OF THE OIS. THIS CONVENTION IS USED ONLY WITH FAR77 APPROACH AND PRIMARY SURFACES.

85. PENETRATION OF INDICATED SURFACE (FIELD 71)/I5/116-120

PENETRATIONS FOR OBJECTS NOTED WITH AN ASTERISK (*) IN FIELD 84 ARE THE APPROACH
SURFACE PENETRATIONS IF THE OBJECT WERE MOVED PERPENDICULAR TO THE RUNWAY CENTERLINE,
TO THE APPROACH SURFACE.

WHEN ONE OIS UNDERLIES ANOTHER, THE PENETRATION IS RELATIVE TO THE LOWER OIS.

86. VERIFICATION DATE/A7/122-128

SEE FIELD 6

87. HEIGHT ABOVE AIRPORT/I5/77-81

88. MAGNETIC HEADING FROM ARP/I5/83-87

FORMAT: DDDMM WHERE
DDD = DEGREES
MM = MINUTES

THIS DATA IS PROVIDED ONLY FOR HCT SURVEYS.

89. DISTANCE FROM ARP/I5/89-93

THIS DATA IS PROVIDED ONLY FOR HCT SURVEY.

90. PENETRATION OF HORIZONTAL, CONICAL, OR TRANSITION OIS /I5/95-99

91. VERIFICATION DATE/A7/101-107

SEE FIELD 6

92 - 99 INTENTIONALLY OMITTED

100. ADDITIONAL INFORMATION/A120/2-121